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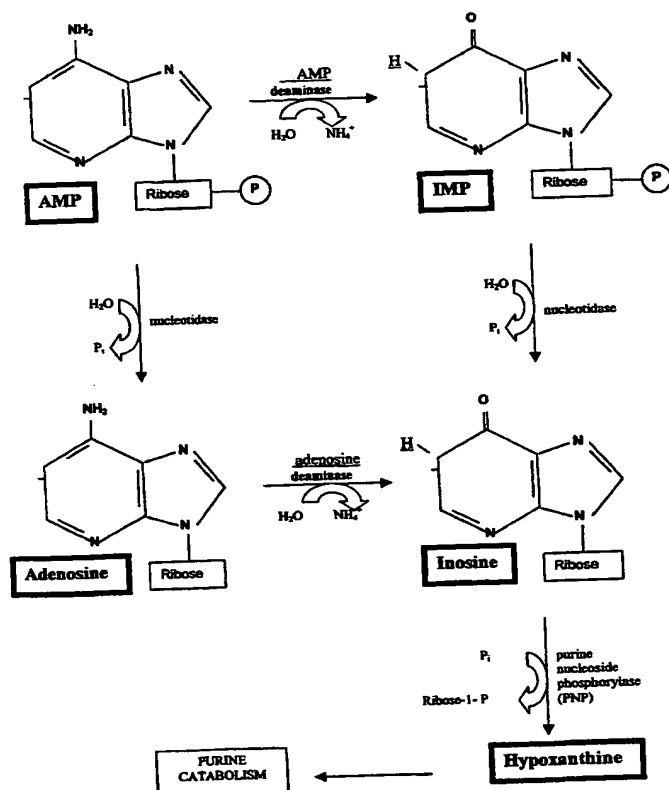
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(54) Title: PURINE METABOLISM GENES IN PLANTS



(57) Abstract: This invention relates to an isolated nucleic acid fragment encoding an AMP deaminase or adenosine deaminase, a transformed host cell comprising the nucleic acid fragment, and a transgenic plant comprising the nucleic acid fragment. The invention also relates to the construction of a chimeric gene encoding all or a substantial portion of an AMP or adenosine deaminase, and a chimeric gene comprising the isolated fragment in sense or antisense orientation. This invention further relates to a method for altering expression level of AMP deaminase or adenosine deaminase in a transformed host cell, and a method for evaluating a compound that affects the activity of an AMP deaminase or an adenosine deaminase.

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